

IN THE CLAIMS

Amended Claims follow:

1. (Currently Amended) A method for charging for Internet Protocol usage utilizing a wireless network, comprising:
 - (a) receiving call description record information from a wireless network in real-time, wherein the call description record information is associated with customer communication over the wireless network;
 - (b) collecting Internet Protocol content usage information associated with the transmission of content using an IP during the customer communication in real-time; and
 - (c) charging the customer for the customer communication utilizing the call description record information and the Internet Protocol content usage information;wherein the customer is charged for the customer communication by mapping the Internet Protocol content usage information to the call description record information to generate mapped information that is filtered, enhanced, and aggregated prior to being delivered to a billing module;
wherein the mapping includes collecting source and destination Internet Protocol addresses, application information, an amount of sent and received data, and start timestamps;
wherein the mapping includes storing a table that is used to associate dynamic IP flow with wireless identity information;
wherein the mapping provides competitive content-based tariff models.
2. (Original) The method as recited in claim 1, wherein the call description record information is received from a general packet radio service system.

3. (Original) The method as recited in claim 1, wherein fraud and quality of service is monitored in real-time utilizing the call description record information and the Internet Protocol content usage information.
4. (Previously Presented) The method as recited in claim 1, wherein the customer is charged for the customer communication based on volume data.
5. (Original) The method as recited in claim 1, wherein the customer is charged for the customer communication based on time data of the call description record information.
6. (Cancelled)
7. (Original) The method as recited in claim 1, wherein an Internet Protocol (IP) address is assigned to mobile communication units which are capable of communicating using the wireless network.
8. (Original) The method as recited in claim 7, wherein aspects associated with the customer communication over the wireless network are varied based on the IP address.
9. (Original) The method as recited in claim 8, wherein the aspects are selected from the group consisting of quality of service, access, and prioritization.
10. (Currently Amended) A computer program product for charging for Internet Protocol usage utilizing a wireless network, comprising:
 - (a) computer code for receiving call description record information from a wireless network in real-time, wherein the call description record information is associated with customer communication over the wireless network;

- (b) computer code for collecting Internet Protocol content usage information associated with the transmission of content using an IP during the customer communication in real-time; and
 - (c) computer code for charging the customer for the customer communication utilizing the call description record information and the Internet Protocol content usage information;
wherein the customer is charged for the customer communication by mapping the Internet Protocol content usage information to the call description record information to generate mapped information that is filtered, enhanced, and aggregated prior to being delivered to a billing module;
wherein the mapping includes collecting source and destination Internet Protocol addresses, application information, an amount of sent and received data, and start timestamps;
wherein the mapping includes storing a table that is used to associate dynamic IP flow with wireless identity information;
wherein the mapping provides competitive content-based tariff models.
11. (Original) The computer program product as recited in claim 10, wherein the call description record information is received from a general packet radio service system.
12. (Original) The computer program product as recited in claim 10, wherein fraud and quality of service is monitored in real-time utilizing the call description record information and the Internet Protocol content usage information.
13. (Previously Presented) The computer program product as recited in claim 10, wherein the customer is charged for the customer communication based on volume data.

14. (Original) The computer program product as recited in claim 10, wherein the customer is charged for the customer communication based on time data of the call description record information.
15. (Cancelled)
16. (Original) The computer program product as recited in claim 10, wherein an Internet Protocol (IP) address is assigned to mobile communication units which are capable of communicating using the wireless network.
17. (Original) The computer program product as recited in claim 16, wherein aspects associated with the customer communication over the wireless network are varied based on the IP address.
18. (Original) The computer program product as recited in claim 17, wherein the aspects are selected from the group consisting of quality of service, access, and prioritization.
19. (Currently Amended) A system for charging for Internet Protocol usage utilizing a wireless network, comprising:
 - (a) logic for receiving call description record information from a wireless network in real-time, wherein the call description record information is associated with customer communication over the wireless network;
 - (b) logic for collecting Internet Protocol content usage information associated with the transmission of content using an IP during the customer communication in real-time; and
 - (c) logic for charging the customer for the customer communication utilizing the call description record information and the Internet Protocol content usage information;

wherein the customer is charged for the customer communication by mapping the Internet Protocol content usage information to the call description record information to generate mapped information that is filtered, enhanced, and aggregated prior to being delivered to a billing module;

wherein the mapping includes collecting source and destination Internet Protocol addresses, application information, an amount of sent and received data, and start timestamps;

wherein the mapping includes storing a table that is used to associate dynamic IP flow with wireless identity information;

wherein the mapping provides competitive content-based tariff models.

20. (Currently Amended) A method for altering service over a wireless network based on an Internet Protocol (IP) address, comprising:

- (a) receiving a call from a mobile communication unit utilizing a wireless network, wherein the mobile communication unit has an IP address associated therewith;
- (b) identifying the IP address associated with the mobile communication unit; and
- (c) altering service over the wireless network based on the IP address:
wherein a customer is charged for customer communication by mapping Internet Protocol content usage information to call description record information to generate mapped information that is filtered, enhanced, and aggregated prior to being delivered to a billing module;
wherein the service is altered by altering an access provided to the mobile communication unit during the call;
wherein the service is altered by altering a prioritization of the call;
wherein the mapping includes collecting source and destination Internet Protocol addresses, application information, an amount of sent and received data, and start timestamps;

wherein the mapping includes storing a table that is used to associate dynamic IP flow with wireless identity information;

wherein the mapping provides competitive content-based tariff models.

21. (Original) The method as recited in claim 20, wherein the service is altered by altering a quality of service of the call.

22. (Cancelled)

23. (Cancelled)

24. (Currently Amended) A computer program product for altering service over a wireless network based on an Internet Protocol (IP) address, comprising:

- (a) computer code for receiving a call from a mobile communication unit utilizing a wireless network, wherein the mobile communication unit has an IP address associated therewith;
- (b) computer code for identifying the IP address associated with the mobile communication unit; and
- (c) computer code for altering service over the wireless network based on the IP address;

wherein a customer is charged for customer communication by mapping Internet Protocol content usage information to call description record information to generate mapped information that is filtered, enhanced, and aggregated prior to being delivered to a billing module;

wherein the mapping includes collecting source and destination Internet Protocol addresses, application information, an amount of sent and received data, and start timestamps;

wherein the mapping includes storing a table that is used to associate dynamic IP flow with wireless identity information;

wherein the mapping provides competitive content-based tariff models.

25. (Original) The computer program product as recited in claim 24, wherein the service is altered by altering a quality of service of the call.
26. (Cancelled)
27. (Cancelled)
28. (Currently Amended) A system for altering service over a wireless network based on an Internet Protocol (IP) address, comprising:
- (a) logic for receiving a call from a mobile communication unit utilizing a wireless network, wherein the mobile communication unit has an IP address associated therewith;
 - (b) logic for identifying the IP address associated with the mobile communication unit; and
 - (c) logic for altering service over the wireless network based on the IP address: wherein a customer is charged for customer communication by mapping Internet Protocol content usage information to call description record information to generate mapped information that is filtered, enhanced, and aggregated prior to being delivered to a billing module; wherein the mapping includes collecting source and destination Internet Protocol addresses, application information, an amount of sent and received data, and start timestamps; wherein the mapping includes storing a table that is used to associate dynamic IP flow with wireless identity information;
wherein the mapping provides competitive content-based tariff models.
29. (Currently Amended) A system comprising:

- (a) means for receiving a call from a mobile communication unit of a customer utilizing a wireless network, wherein the mobile communication unit has an IP address associated therewith;
- (b) means for receiving call description record information from the wireless network in real-time, wherein the call description record information is associated with customer communication over the wireless network utilizing the mobile communication unit;
- (c) means for collecting Internet Protocol content usage information associated with the transmission of content using an IP during the customer communication in real-time;
- (d) means for altering service over the wireless network based on the IP address; and
- (e) means for charging the customer for the customer communication utilizing the call description record information and the Internet Protocol content usage information:

wherein the customer is charged for the customer communication by mapping the Internet Protocol content usage information to the call description record information to generate mapped information that is filtered, enhanced, and aggregated prior to being delivered to a billing module;

wherein the service is altered by altering an access provided to the mobile communication unit during the call;

wherein the service is altered by altering a prioritization of the call;

wherein the mapping includes collecting source and destination Internet Protocol addresses, application information, an amount of sent and received data, and start timestamps;

wherein the mapping includes storing a table that is used to associate dynamic IP flow with wireless identity information;

wherein the mapping provides competitive content-based tariff models.

30. (Previously Presented) The method as recited in claim 1, wherein the Internet Protocol usage information is mapped to the call description record information to generate a modified call description record.
31. (Cancelled)
32. (Cancelled)
33. (Previously Presented) The method as recited in claim 1, wherein the Internet Protocol content usage information and the call description record information are mapped to a lightweight directory access protocol (LDAP) database and aggregated with an aggregator, resulting in contract records.
34. (Previously Presented) The method as recited in claim 1, wherein information collected through NetFlow and remote traffic monitoring (RMON) web processes is further enhanced by a global system for mobile communication (GPRS) associator.
35. (Previously Presented) The method as recited in claim 1, wherein the mapping further includes synchronization between distributed associators.
36. (Cancelled)
37. (Previously Presented) The method as recited in claim 20, wherein the access is altered by selectively precluding access to a particular network based on whether the IP address resides within a predetermined address group.
38. (Previously Presented) The method as recited in claim 20, wherein the prioritization includes prioritization of packet flows based on an IP address

source and destination so that a mobile communication unit assigned a higher priority receives faster service by being serviced before mobile communication units with a lower priority.

39. (New) The method as recited in claim 1, wherein the content usage information includes a source, destination, user name, duration, time, date, type of server and volume of data transferred.
40. (New) The method as recited in claim 20, wherein the IP address associated with the mobile communication unit is assigned to the mobile communication unit in response to a connection made with a particular network such that the assigned IP address ensures a predetermined quality of service.